



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 20, 2015

Montague Dixon  
Senior Regulatory Product Manager  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419-8300

Subject: PRIA Label Amendment – Expand preplant/preemergence potato use to other tuberous and corm vegetables (arracacha, arrowroot, Chinese and Jerusalem artichokes, edible canna, chayote root, chufa, leren, potato, sweet potato, turmeric, and yam bean); Reformat use listing  
Product Name: Paraquat Concentrate ES  
EPA Registration Number: 100-1067  
Application Date: September 10, 2013  
Decision Number: 483234

Dear Mr. Dixon:

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable under FIFRA Section 3(c)(7)(B), subject to the following conditions:

1. You must submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.
2. You are required to comply with the data requirements described in the DCI identified below:
  - a. Paraquat dichloride GDCI-061601-1172

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:

[http://www.epa.gov/oppsrrd1/contacts\\_prd.htm](http://www.epa.gov/oppsrrd1/contacts_prd.htm)

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for

Continued on page 2

18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e).

If you have any questions, please contact me by phone at 703-605-0723, or via email at [ondish.mindy@epa.gov](mailto:ondish.mindy@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Mindy Ondish for". The word "for" is written in a smaller, simpler font than the name.

Daniel Kenny, Chief  
Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

## Paraquat Concentrate ES

For Formulation of Paraquat Herbicide Products Only

Refer to Syngenta Manufacturing Formulas for Formulating Directions, Chemical and Physical Properties

### Active Ingredient:

Paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium dichloride)..... 45.6%

**Other Ingredients:**..... 54.4%

**Total:**..... 100.0%

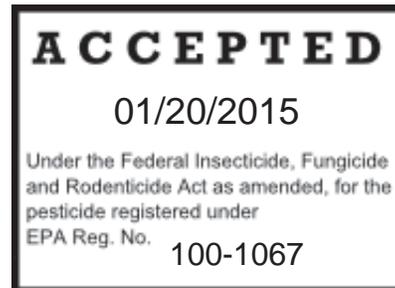
Paraquat Concentrate ES contains 3.14 pounds paraquat cation per gallon as 4.332 pounds salt per gallon.  
Contains emetic.

**KEEP OUT OF REACH OF CHILDREN.**



**DANGER/  
PELIGRO**

**POISON**



- **NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS.**
- **IF SWALLOWED, TAKE IMMEDIATE ACTION AS PRESCRIBED IN FIRST AID SECTION. SYMPTOMS ARE PROLONGED AND PAINFUL.**

See additional precautionary statements and directions for use on label.

EPA Reg. No. 100-1067

EPA Est.

Product of

Product ID 32850

SCP 1067A

\_\_\_\_ gallons  
Net Contents

<b>FIRST AID</b> <b>Contains Paraquat, a Bipirydylum Herbicide</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• SPEED IS ESSENTIAL. Immediate medical attention is required. If available, give an adsorbent such as activated charcoal, bentonite or Fullers Earth.</li><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• The odor of this product is from the stenching agent, which has been added, not from the paraquat.</li><li>• If person is not breathing, call 911 or an ambulance.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>NOTE TO PHYSICIAN</b> Refer to the booklet 'Paraquat Poisoning. A Practical Guide to Diagnosis, First Aid and Hospital Treatment'. ( <a href="http://www.syngenta.com/pqmedguide/">http://www.syngenta.com/pqmedguide/</a> ) Administer either activated charcoal (100g for adults or 2g/kg body weight in children) or Fuller's Earth (15% solution; 1 liter for adults or 15ml/kg body weight in children). NOTE: The use of gastric lavage without administration of an adsorbent has not shown any clinical benefit. Do not use supplemental oxygen. Eye splashes from concentrated material should be treated by an eye specialist after initial treatment. With the possibility of late onset corneal ulceration, it is advised that patients with paraquat eye injuries are reviewed by an eye specialist the day after first presentation. Use treatment that is appropriate for chemical burns. Intact skin is an effective barrier to paraquat, however contact with irritated or cut skin or repeated contact with intact skin may result in poisoning.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b> For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call <b>1-800-888-8372</b>	

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## PRECAUTIONARY STATEMENTS

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### Hazards to Humans and Domestic Animals



**DANGER/** **POISON**  
**PELIGRO**

May be fatal if swallowed. Fatal if inhaled. Causes substantial but temporary eye injury. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Do not breathe spray mist. Do not inhale contaminated plant dust.

**IMPORTANT:** Inhalation is an unlikely route of exposure due to low vapor pressure, but mucosal irritation or nose bleeds may occur. Prolonged contact with this concentrated product can irritate your skin.

When handling or mixing concentrate or when exposure to concentrate is possible, wear:

- Long-sleeve shirt and long pants
- Chemical-resistant apron
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Face shield
- Protective eyewear

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. **REMOVE** contaminated clothing and wash separate from other laundry before reuse.

### ENVIRONMENTAL HAZARDS

**WILDLIFE:** This product is toxic to wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of EPA.

**PHYSICAL AND CHEMICAL HAZARDS:** This product reacts with aluminum to produce hydrogen gas which may form a highly combustible gas mixture. Do not mix or

store in containers, tanks, or such systems made of aluminum or having aluminum fittings.

**EQUIPMENT/CONTAINER:** Flush all equipment with water after use each day. Paraquat is corrosive to aluminum. Aluminum equipment and aluminum structures that are exposed to solution or spillage should be flushed thoroughly with water immediately after use.

### **SPILLAGE DURING TRANSPORT**

**Emergency action:** Notify police and fire departments immediately. For any spill, leak, fire or exposure in the United States, call **1-800-888-8372**. In other countries, call your local Syngenta agent.

KEEP PUBLIC AND ANIMALS away from area. MARK ROADS AND WARN OTHER ROAD USERS. WEAR face shield, waterproof gloves, waterproof footwear, and long-sleeve shirt and long pants during decontamination operations.

Clean up spills as soon as possible. Cover spill with generous amount of clay or loam soil to absorb liquid, using a stiff broom to insure intimate contact. Sweep onto shovel and transfer to plastic bag or other disposable container. Repeat operations until contaminated surfaces are dry. Finally, hose spill site with water if feasible.

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## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials, or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or Syngenta, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product without complying with all label directions and warnings.

This product is to be used only for formulation into herbicides with an acute oral toxicity to dogs (lethal effects) that exceeds 128 mg paraquat ion/kg body weight (602 mg of formulation/kg body weight for a 240 g paraquat ion/l formulation) and that contain an effective emetic that meets FAO specifications, a dye, and an olfactory alerting agent that have been cleared under FIFRA for use in pesticides registered for food use.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

Only for formulation into an herbicide for the following uses:

(1) Terrestrial Food:

Acerola; Alfalfa; Almonds; Apples; Apricots; Arracacha; Arrowroot; Artichoke, Chinese; Artichoke, Jerusalem; Asparagus; Atemoya; Avocados; Bananas/Plantains; Barley; Beans, dry; Beans (lima, snap); Beechnut; Biriba; Blackberries; Black sapote; Blueberries; Boysenberries; Brazil nut; Broccoli; Butternut; Cabbage; Cabbage, Chinese; Cacao; Calamondin; Canistel; Canna, edible; Carrots; Cashew; Cassava, bitter and sweet; Cauliflower; Cavalo broccolo; Chayote (fruit and root); Cherimoya; Cherries; Chestnut; Chinquapin; Chufa; Citron melon; Citrus citron; Clover and other Legumes; Coffee; Collards; Corn (pop, field, sweet, and seed); Cotton; Cucumber; Currant; Custard apple; Dasheen (taro); Easter Lilies; Eggplant; Elderberry; Endive (escarole); Fallow land; Feijoa; Figs; Filberts; Garlic; Gherkin; Ginger; Gooseberry; Gourd, edible; Grapefruit; Grapes; Groundcherry; Guar; Guava; Hops; Hickory nut; Huckleberry; Ilima; Jaboticaba; Kiwi fruit; Kumquat; Lemon; Lentils; Leren; Lettuce; Lime; Loganberry; Longan; Lychee; Macadamia nut; Mamey sapote; Mandarin; Mandarin, Satsuma; Mango; Mint (peppermint and spearmint); *Momordica* spp.; Muskmelon; Nectarines; Okra; Olives; Onions; Orange (sour & sweet); Papayas; Passion Fruit; Pastures; Pawpaw; Peaches; Peanuts; Pears; Peas; Pecans; Pepino; Peppers; Persimmon; Pigeon peas; Pineapple; Pistachios; Plums; Pomegranate; Potato; Prunes; Pulasan; Pummelo; Pumpkin; Rambutan; Raspberries; Rice; Safflower; Sapodilla; Sorghum; Soursop; Soybeans; Spanish lime; Squash; Star apple; Starfruit; Strawberries; Sugar apple; Sugar beets; Sugarcane; Sunflower; Sweet corn; Sweet potato; Taniers; Tomatillo; Tomatoes; Turmeric; Turnips; Tyfon; Walnuts; Watermelon; Waxgourd, Chinese; Wax jambu; Wheat; White sapote; Yam bean; Yam, true

Terrestrial Nonfood: Conservation Compliance Lands; Conservation Reserve Lands; Federal Set-Aside Lands; Grasses grown for seed; Resin soaking (pines); Tree Plantation Establishment; Shade and ornamental trees such as arborvitae, ash, elm, fir, oak, pine, etc.

- (2) Uses for which USEPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration; and
- (3) Uses for experimental purposes that are in compliance with USEPA requirements.

### **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store at temperatures above 32°F. For help with any spill, leak, or fire involving this material, call **1-800-888-8372**.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into formulation equipment. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into formulation equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

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For non-emergency (e.g., current product information), call  
Syngenta Crop Protection at 1-800-334-9481

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300  
SCP 1067A

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